

Letter to 3–5 Teachers

Dear Grades 3–5 Teachers,

As a teacher, you make hundreds of decisions every day! Many of these decisions fall into the categories of classroom management or paperwork, such as selecting which student gets to be line leader or determining if you need to call that parent tonight or tomorrow. Some decisions are crucial to the classroom climate and environment and set the stage for how students learn. Among the hundreds of decisions you make, the most important are those that influence student learning. Designing, planning, and facilitating lessons reflect critical teacher decision-making opportunities that affect student learning. Oftentimes, these decisions get relegated to a few moments of planning time.

In this book, *The Mathematics Lesson-Planning Handbook: Your Blueprint for Building Cohesive Lessons*, you will experience the decision-making processes that are involved in planning lessons, and you will get to build a lesson of your own using a specially designed format just for you. Your decisions will revolve around creating mathematics lessons with purpose, rigor, and coherence. In addition, we will help you address the decisions involved in selecting your resources (e.g., “How do I make the best use of my textbook or state/district instructional materials?”), your classroom structure (e.g., “Do I use a small group or a large group?”), your worthwhile tasks (e.g., “How do I know one when I see it?”), your learning intentions (e.g., “What are my objectives?”), and your success criteria (e.g., “How will I know my students have learned?”). We will show you the importance of identifying big ideas, anticipating student misconceptions, implementing formative assessment, facilitating a lesson with questioning, and closing a lesson with reflection techniques.

Each chapter includes a vignette, examples for each grade level (3–5), an opportunity to reflect on the ideas presented, suggestions for building a unit from your lesson, and an Under Construction section to help you build a lesson on the content of your choice. A glossary in Appendix D provides definitions for words highlighted in each chapter.

Keep in mind that the goal of teaching is student learning. The best lessons that students can experience always begin with a prepared teacher.

Sincerely,

Ruth Harbin Miles
Beth McCord Kobett
Lois A. Williams

Letter to Elementary Principals

Dear Elementary Principals,

Some teachers *implement lesson plans* written by textbook publishers or by other professional curriculum writers. We argue that this is not enough. To positively affect the learning of their students, teachers need professional decision-making opportunities.

In this book, *The Mathematics Lesson-Planning Handbook: Your Blueprint for Building Cohesive Lessons*, your teachers will experience the decision-making processes that are involved in planning lessons for purpose, rigor, and coherence, and they will build a lesson of their own using a format created for them. In addition, we will help them address the decisions involved in selecting resources (e.g., “How can teachers make the best use of their textbook or state/district instructional materials?”), classroom structure (e.g., “Should there be small-group or large-group instruction?”), worthwhile tasks (e.g., “How do they recognize them?”), lesson intentions (e.g., “What are the objectives?”), and success criteria (e.g., “How will the teachers know their students have learned?”). We will help them examine the importance of identifying big ideas, anticipating student misconceptions, implementing formative assessment, facilitating a lesson with questioning, and closing a lesson with reflection techniques.

Your faculty of individual classroom and special education teachers all bring different knowledge, unique skills, and distinct ideas to the lesson-planning process. As a leader, you may wish to supply every teacher with a personal copy of the book for use as a schoolwide initiative or book study. Providing the opportunity for teachers to engage and use the book in grade-level planning with colleagues will allow teachers to dig deeply into their standards and collaborate to leverage each other’s knowledge and experience. Be sure to invite teachers to bring this resource to all planning and professional development sessions. You may even want teachers to start or end a meeting by sharing a lesson they have planned based on the suggestions and strategies found in this book. As part of a faculty book study, this book will influence professional practice in lesson planning that promotes student achievement. After all, your best-prepared teachers are the most effective players on your team!

Sincerely,

Ruth Harbin Miles
Beth McCord Kobett
Lois A. Williams

Letter to Mathematics Coaches

Dear Mathematics Coaches,

Your work with teachers must, undoubtedly, encompass a great deal of time and effort planning mathematics lessons. This guide is designed to unpack the lesson-planning process to help teachers understand the importance of teacher decision making as they plan effective mathematics lessons to support student growth. Currently, some teachers simply *implement lesson plans* written by textbook publishers or by other professional curriculum writers. We argue that this is not enough. To positively affect the learning of their students, teachers need professional decision-making opportunities.

As you know, collaborative planning can be particularly powerful for teams of teachers. You may find that a three-step process, incorporating a planning, trying, and reflective cycle, will be most helpful for your teachers. Consider beginning small, tackling the content by chapter, to increase successful implementation.

In this book, *The Mathematics Lesson-Planning Handbook: Your Blueprint for Building Cohesive Lessons*, your teachers will experience the decision-making processes that are involved in planning lessons for purpose, rigor, and coherence, and they will build a lesson of their own using our format. In addition, we will help them address the decisions involved in selecting resources (e.g., “How can teachers make the best use of their textbook or state/district instructional materials?”), classroom structure (e.g., “Should there be small-group or large-group instruction?”), worthwhile tasks (e.g., “How do they recognize them?”), lesson intentions (e.g., “What are the objectives?”), and success criteria (e.g., “How will the teachers know their students have learned?”). We look at the importance of identifying big ideas, anticipating student misconceptions, implementing formative assessment, facilitating a lesson with questioning, and closing a lesson with reflection techniques.

Your faculty of individual classroom and special education teachers all bring different knowledge, skills, and distinct ideas to the lesson-planning process. Providing the opportunity for teachers to engage and use the book in grade-level planning with colleagues will allow teachers to dig deeply into their standards and collaborate to leverage each other’s knowledge and experience. Be sure to invite teachers to bring this resource to all planning and professional development sessions. You may even want teachers to start or end a meeting by sharing a lesson they have planned based on the suggestions and strategies found in this book. As part of a faculty book study, this book will influence professional practice in lesson planning that promotes student achievement. After all, your best-prepared teachers are the most effective players on your team!

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Ruth Harbin Miles
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Letter to Preservice College and University Instructors

Dear Preservice College and University Instructors,

Preservice teachers for Grades 3 to 5 must learn how to develop lesson plans to professionally prepare for teaching their students. One of the critical goals of a methods class is to guide preservice teachers and help them learn to create effective, well-crafted, and engaging mathematics lesson plans.

A recent study published in the *American Educational Research Journal* states that elementary preservice teachers remember and use what they learned in teacher-prep programs about writing lesson plans for mathematics (Morris & Hiebert, 2017). You have a major role to play, and this book can help you unpack the lesson-planning process.

The Mathematics Lesson-Planning Handbook: Your Blueprint for Building Cohesive Lessons helps your preservice teachers experience the decision-making processes involved in planning lessons for purpose, rigor, and coherence, and it guides them through the steps of building a lesson of their own using a format created for them. In addition, we help them address the decisions involved in selecting resources (e.g., “How can teachers make the best use of their textbook or state/district instructional materials?”), classroom structure (e.g., “Should there be small-group or large-group instruction?”), worthwhile tasks (e.g., “How do they recognize them?”), lesson intentions (e.g., “What are the objectives?”), and success criteria (e.g., “How will the teachers know their students have learned?”). We look at the importance of identifying big ideas, anticipating student misconceptions, implementing formative assessment, facilitating a lesson with questioning, and closing a lesson with reflection techniques.

The handbook includes 14 chapters that may easily be incorporated into a 14-, 15-, or 16-week methods course. The resource provides the opportunity for preservice teachers to engage and study the content chapter by chapter. As a result of their learning, this book will influence professional practice in lesson planning. After all, the preservice teachers’ knowledge influences how they plan for instruction throughout their career.

Sincerely,

Ruth Harbin Miles
Beth McCord Kobett
Lois A. Williams